online SBR No.000002/17-18
DATED = 31-10-17

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

online: EE/ELE/Y/BR No.000003/17-18

No. 1st Ra bill

Date.....2017

Dt. 31-10-17

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-011-17-000045**

Schedule Docket No. Head of Account :**P 0287**

D.R.No. :

Bill Period: **01-05-2017 to 31-07-2017 (for 1 months 11 Days)**

Name of Work : *Annuaal Maintenance of Electrical Equipments and Maintenance of Crematorium at Mediagrahara Lakshmipura in Ward No 11*"

Name of Contractor and Full Address:**M/S S.B.E.S Electricals** **Job Code :-009-16-000013**

Reference to Agreement No:EE/Ele/YZ/WO/02 /17-18 Date:27/4/2017

Certified that the measurements were taken by me on 9/8/17 and recorded of Pages 311172 to 177 of measurement Book No. 3112/178 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 9/8/17 ..and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
BBMP, Bangalore

Sub-Division Officer

II Memorandum of Payment

		Amount
1)	Total value of work done or supplies made as per account within	BILL= 343915=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....	
	adjusted towards cash advance recovery of	
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

IT 1% 3439=00
SGST 1% 3439=00
CGST 1% 3439=00
LWC 1% 3439=00
CBF 0.1% 3444=00
deductions 14100=00
cheque 3,29,815=00

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs..... .....Dated.....

Initials of Officer making payment

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P0287 maR to Electrical.

ರೂ: 343915=00 ಅಂಕಿಯಲ್ಲಿ ಮತ್ತು ಪದಗಳಲ್ಲಿ ಪಾವತಿ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 329,815=00 ಚೆಕ್ ಮೂಲಕ ಪಾವತಿಸಲಾಗಿದೆ

ರೂ: 14,100=00 ಮುಂಗಡ ಹಣ ಕಡಿತ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item	Unit
	Name of Work :Annuaal Maintenance of Electrical Equipments and Maintenance of Crematorium at Mediagrahara Lakshmipura in Ward No 11	
1	Licenced electrician wiremen fitter with tools (Skilled) Rs.13365/Person/Month. Rs.13365*12=1,60,380/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person
2	a).Helper (Electrical) (Semi-Skilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person
3	a).Sweeper (Unskilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person
4	Gurkha Watchman (Unskilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person
5	Material components per day a)soap oil	P/Ltrs
6	b)henyl	P/Ltrs
7	c)Air Freshner cakes	Each
8	d)Room Freshner	P/Ltrs
9	e)Checks cloth	Doz
10	f)Dust cloths	Doz
11	g)Mop cloth	Each
12	h)Soft broom	Each
13	i)Hard broom	Each
14	j)Road brush	Each
15	k)Urinal cakes	Each
16	l)HCL	P/Ltrs
17	Body Resting Bricks made out of Refractory to with stand. Temperature upto 1000c to the required shape-as per BIS-8	Each
18	Supplying and fixing of heating element made out of nickel chromium 8/20, 8 SWG composition wire with SS 310, 450 x 10 mm dia. with one side threaded terminal rod duly welded, coil length 2690 mm, coil dia., 25 mm, weight of the coil 4.5 kg, coil of 0 to 25 mm ID 15 mm pitch to 8 to 10 mm (inclusive of KST, ST and CESS etc.	Each
19	Supplaying & Fixing of nickel chromium Heating coils 4.5 KW suitable for Verticle mounting system in Electrical Furnace	Each
20	Annual Maintenance of 180 KVA D.G. Set Existing A.M.C. including of labour charges only for replacing the spare parts and periodically checkup of D.G. AMF panel (Without operator)	Each
21	Supplying & Changing of B Check Kit for Engine.	Nos
22	Supplying & Changing of Alternator AVR.(Automatic Voltage Regulator)	Nos
23	Supplying & Changing of Alternator Rectifier	Nos
24	Supplying & Changing of Dynamo repair Kit such as Corbons, Bearings & Diode Etc,.	Nos
25	Supplying & Changing of Batery terminals	Nos
26	Supplying & Fixing of Air filter	Nos
27	Supplying & Changing of Radiator Fly wheel gear	Nos
28	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS-13947. 2) 125Amps	Each
29	Supplying and fixing HRC fuse link on existing switch fuse base with watt loss as per IS-13703. 3) 125Amps	Each

Previous		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty.	Rate	Amount	Qty	Cost	
		1x3 Months	13333.33	39999.99	1x3 Months	39999.99	
		1x3 Months	11666.66	34999.99	1x3 Months	34999.99	
		1x3 Months	11666.66	34999.99	1x3 Months	34999.99	
		1x3 Months	11666.66	34999.99	1x3 Months	34999.99	
		30	15.00	450.00	30	450.00	
		40	50.00	2000.00	40	2000.00	
		50	100.00	5000.00	50	5000.00	
		24	100.00	2400.00	24	2400.00	
		23	50.00	1150.00	23	1150.00	
		13	60.00	780.00	13	780.00	
		9	60.00	540.00	9	540.00	
		9	25.00	225.00	9	225.00	
		9	30.00	270.00	9	270.00	
		1	100.00	100.00	1	100.00	
		30	50.00	1500.00	30	1500.00	
		9	100.00	900.00	9	900.00	
		4	10000.00	40000.00	4	40000.00	
		3	15000.00	45000.00	3	45000.00	
		0	10000.00	0.00	0	0.00	
		0	12000.00	0.00	0	0.00	
		0	2000.00	0.00	0	0.00	
		0	5000.00	0.00	0	0.00	
		0	5000.00	0.00	0	0.00	
		1	1000.00	1000.00	1	1000.00	
		2	2000.00	4000.00	2	4000.00	
		0	1000.00	0.00	0	0.00	
		0	3000.00	0.00	0	0.00	
		1	3000.00	3000.00	1	3000.00	
		3	2250.00	6750.00	3	6750.00	

30	Supplying & Changing of Cylinder head caliberation.(3 Nos)	Set
31	Supplying & Changing of Radiotor hose Kit (3 Nos)	Set
32	Supplying & Changing of Pump gasket	Nos
33	Supplying & Changing of Top cover gasket.	Nos
34	Servicing & cleaning of Scrubber, Scrubber duct Exhaust Blower & Duct Furnace to Chimny and cleaning of chimny (6 monts once)	P/Set
35	Accost - 50 Grade	Bag
36	Fire crate super	Bag
37	Thermotex	Bag
38	Fire blanket : 128 Grade	Each
39	IS 8 Standard Brick : Size : 9x4.5x3	Each
40	Plastic buckets 20 L capacity PWD Civil SR 2013-14	No
41	Plastic Mugs PWD Civil SR 2013-14	No
42	Point wiring using Copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Mtr
43	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -A.1.5 sqmm	Rmt
44	4)4 sqmm	P/Mtr
45	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 6Amps SP Switch	Nos
46	6Amps 3 way 5 pin Socket	No
47	16 Amps SP switch	No
48	16 Amps 3 way 5 pin socket	Each
49	Stepped Fan Regulator.	Nos
50	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical conditionLED light fighting 4' - 28 watts	Each
51	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/Micro processed release and Earth Fault as per IS-13947. (Icu=Ics). FOUR POLE 6) 125-160Amps 25kA.	Each
52	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.	Each
53	Supplying, installaion, testing & commis-sioning of 12Volts.. AH batteries in poly propylene container for D.G Sets low maintenance batteries. 4) 150 AH, Acid batteries.	Each
54	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 4) 100 Amps	Each
55	5) 200 Amps	Each
56	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 2) 15" Sweep (450mm)	Each
57	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.	Mtrs
58	Supplying and fixing of Alkathine tube of 25 mm dia as per standard technical specification	Each

		0	5000.00	0.00	0	0.00	
		0	5000.00	0.00	0	0.00	
		0	1000.00	0.00	0	0.00	
		0	1000.00	0.00	0	0.00	
		2	25000.00	50000.00	2	50000.00	
		2	1000.00	2000.00	2	2000.00	
		1	1000.00	1000.00	1	1000.00	
		1	1000.00	1000.00	1	1000.00	
		2	1000.00	2000.00	2	2000.00	
		50	200.00	10000.00	50	10000.00	
		2	200.00	400.00	2	400.00	
		4	100.00	400.00	4	400.00	
		0	600.00	0.00	0	0.00	
		0	10.00 15.00	0.00	0	0.00	
		0	150.00	0.00	0	0.00	
		0	200.00	0.00	0	0.00	
		0.00	100.00	0.00	0.00	0.00	
		0.00	160.00	0.00	0.00	0.00	
		0.00	200.00	0.00	0.00	0.00	
		0	450.00	0.00	0	0.00	
		0	2000.00	0.00	0	0.00	
		0	2250.00	0.00	0	0.00	
		1	1000.00	1000.00	1	1000.00	
		0	3000.00	0.00	0	0.00	
		3	200.00	600.00	3	600.00	
		3	400.00	1200.00	3	1200.00	
		0	4500.00	0.00	0	0.00	
		0	500.00	0.00	0	0.00	
		1	2000.00	2000.00	1	2000.00	

59	Supplying and installation of RUBBER MAT 1 mt X 2mt 10 mm thick. PWD Electrical SR 2010-11	Each
60	Supplying and fixing of DANGER/NO ADMISSION/NO SMOKING board made out of MS sheet metal with two coats of non corrosive enameled paint. PWD Electrical SR 2007-08	Pair
61	Supplying of Rubber HAND GLOVES of Electrical quality to 22KV. PWD Electrical SR 2007-08	Each
62	Supplying of Safty MASK, PWD Electrical SR 2007-08	Each
63	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.	Each
64	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 11) 95 sq mm long barrel	Each
65	15) 240 sq mm long barrel	Each
66	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 4) 5)160-200Amps	Each
67	3) 60-70 amps	Each
68	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Each
69	3) 5-32Amps DP	Nos
70	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 90W	Nos
71	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 16 + 1 X 25 SQ.MM	Mtrs
72	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Mtrs
73	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	Nos
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		1	1500.00	1500.00	1	1500.00	
		0	200.00	0.00	0	0.00	
		0	100.00	0.00	0	0.00	
		2	200.00	400.00	2	400.00	
		3	200.00	600.00	3	600.00	
		3	150.00	450.00	3	450.00	
		3	150.00	450.00	3	450.00	
		2	2000.00	4000.00	2	4000.00	
		1	1500.00	1500.00	1	1500.00	
		2	1000.00	2000.00	2	2000.00	
		3	450.00	1350.00	3	1350.00	
		0	20000.00	0.00	0	0.00	
		0	500.00	0.00	0	0.00	
		0	50.00	0.00	0	0.00	
		0	12000.00	0.00	0	0.00	
				343914.96		343914.96	